

Claims

- [c1] 1.A rotor for a rotating electrical machine comprised of a cylindrical portion carrying a plurality of spaced permanent magnets, a hub portion adapted to be affixed to a rotatable shaft, an interconnecting portion for interconnecting said cylindrical portion and said hub portions, and a plurality of reinforcing ribs formed in said interconnecting portion.
- [c2] 2.A rotor for a rotating electrical machine as set forth in claim 1, wherein the cylindrical portion and the interconnecting portion are integral with each other.
- [c3] 3.A rotor for a rotating electrical machine as set forth in claim 2, wherein the hub portion is integral with the remaining portions.
- [c4] 4.A rotor for a rotating electrical machine as set forth in claim 1, wherein the ribs extend axially outwardly from a disk shaped portion extending radially inwardly from the cylindrical portion at one side thereof.
- [c5] 5.A rotor for a rotating electrical machine as set forth in claim 4, wherein a plurality of openings are defined by the disk shaped portion for reducing the weight and rotational inertia of said rotor without significantly reducing its strength and for permitting a coolant to flow therethrough.
- [c6] 6.A rotor for a rotating electrical machine as set forth in claim 5, wherein the openings are juxtaposed to the ribs are curved around the openings.
- [c7] 7.A rotor for a rotating electrical machine as set forth in claim 5, wherein the openings occupy the entire area between the ribs so that the ribs comprise spokes.
- [c8] 8.A rotor for a rotating electrical machine as set forth in claim 7, wherein one axial side of the spokes is inclined from one side thereof to the other side.
- [c9] 9.A rotor for a rotating electrical machine comprised of a cylindrical portion carrying a plurality of spaced permanent magnets, a hub portion adapted to be affixed to a rotatable shaft, and an interconnecting portion for interconnecting said cylindrical portion and said hub portions, a plurality of openings defined by

said interconnecting portion for reducing the weight and rotational inertia of said rotor without significantly reducing its strength.

[c10]

10.A rotor for a rotating electrical machine as set forth in claim 9, wherein the openings are circular and a side of the intermediate section adjacent each opening is relieved toward the opening.

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